

ABSTRACT

VCO (voltage-controlled oscillator) device used for a radio unit such as a television broadcast receiver. A VCO device oscillating in a wide band of oscillation frequency and capable of 5 realizing low power consumption is provided. VCO circuit group 4 oscillates signals of frequencies corresponding to control voltage V_t applied to frequency control voltage terminal 8. LO signal selecting means 3 selects a required output signal from VCO circuit group 4. PLL 6 frequency-divides local signal f_{VCO} selected by LO signal 10 selecting means 3, compares a phase thereof with a phase of a reference signal and outputs a signal converted from a phase difference. Loop filter 7 smoothes the output signal from PLL 6, outputs control voltage V_t that is a frequency control voltage and outputs the local signal selected by signal selecting means 3 to high 15 frequency signal processing means 1.